

# Bachelor of Science in Informatics

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A total of 120 semester hours is required. Thirty-six hours must be in upper-division courses. At least 60 hours, including 21 hours of upper-division coursework, must be completed in residence at the University; at least 24 of the last 30 hours must be completed in residence at the University. Provided residence rules are met, credit may be earned with the approval of the dean by examination, by extension, by correspondence, or by work transferred from another institution. Up to 12 semester hours of classroom and/or correspondence coursework may be taken on the pass/fail basis; this coursework may be counted only as electives.

All students must complete the University's Core Curriculum. In the process of fulfilling the core curriculum and other degree requirements, all students are expected to complete the Skills and Experience flags:

- a. Writing: two flagged courses beyond Rhetoric and Writing 306 or its equivalent
- b. Quantitative Reasoning: one flagged course
- c. Global Cultures: one flagged course
- d. Cultural Diversity in the United States: one flagged course
- e. Ethics: one flagged course
- f. Independent Inquiry: one flagged course

Courses that may be used to fulfill core curriculum and flag requirements are identified in the *Course Schedule*. They may be used simultaneously to fulfill other requirements, unless otherwise specified. Please note, students may not earn the cultural diversity and global cultures flags from the same course. Students are encouraged to discuss options with a departmental academic advisor.

The specific requirements for the Bachelor of Science in Informatics consist of prescribed work, the major, and electives. Only in the following cases may a single course be counted toward more than one requirement:

- a. A course that fulfills a core curriculum requirement may also be counted toward any specific requirement of the Informatics major unless otherwise stated below.
- b. Courses counted toward the prescribed work may also be counted toward the Informatics major.
- c. A course that fulfills another requirement may also be used to fulfill a flag requirement.

## Prescribed Work

- a. Informatics 302, *Academic Success in the Digital University*.
- b. Informatics 303, *Ethical Foundations for Informatics*.
- c. Informatics 304, *Programming for Informatics*.
- d. Informatics 305, *Research Methods for Informatics*.
- e. Informatics 306, *Statistics for Informatics*.
- f. *Foreign Language*: Beginning-level proficiency coursework, or the equivalent, in a foreign language.
- g. Six additional credit hours in science, technology, engineering, and math from an approved course list.
- h. Informatics 372, *Career Success in the Digital Organization*.

## Major Requirements

### Cultural Heritage Informatics Concentration

- a. Informatics 301, *Introduction to Informatics*.
- b. *Introductory concentration course*: Informatics 310C.
- c. Additional introductory concentration course: Informatics 310D, 310J, 310M, 310S, or 310U.
- d. Advanced concentration coursework: Nine credit hours of advanced topics coursework in Informatics 320C, *Topics in Cultural Heritage Informatics*.
- e. Informatics 379C, *Capstone* (Students pursuing the School of Information Honors distinction may substitute Informatics 679H, *Honors Thesis*).
- f. *Informatics elective*: Three hours of Informatics elective coursework in the School of Information.

### Human-Centered Data Science Concentration

- a. Informatics 301, *Introduction to Informatics*.
- b. *Introductory concentration course*: Informatics 310D.
- c. Additional introductory concentration course: Informatics 310C, 310J, 310M, 310S, or 310U.
- d. Advanced concentration coursework: Nine credit hours of advanced topics coursework in Informatics 320D, *Topics in Human-Centered Data Science*.
- e. Informatics 379C, *Capstone* (Students pursuing the School of Information Honors distinction may substitute Informatics 679H, *Honors Thesis*).
- f. *Informatics elective*: Three hours of Informatics elective coursework in the School of Information.

### Social Justice Informatics Concentration

- a. Informatics 301, *Introduction to Informatics*.
- b. *Introductory concentration course*: Informatics 310J.
- c. Additional introductory concentration course: 310C, 310D, 310M, 310S, or 310U.
- d. Advanced concentration coursework: Nine credit hours of advanced topics coursework in Informatics 320J, *Topics in Social Justice Informatics*.
- e. Informatics 379C, *Capstone* (Students pursuing the School of Information Honors distinction may substitute Informatics 679H, *Honors Thesis*).
- f. *Informatics elective*: Three hours of Informatics elective coursework in the School of Information.

### Health Informatics Concentration

- a. Informatics 301, *Introduction to Informatics*.
- b. *Introductory concentration course*: Informatics 310M.
- c. Additional introductory concentration course: Informatics 310C, 310D, 310J, 310S, or 310U.
- d. Advanced concentration coursework: Nine credit hours of advanced topics coursework in Informatics 320M, *Topics in Health Informatics*.
- e. Informatics 379C, *Capstone* (Students pursuing the School of Information Honors distinction may substitute Informatics 679H, *Honors Thesis*).
- f. *Informatics elective*: Three hours of Informatics elective coursework in the School of Information.

## Social Informatics Concentration

- a. Informatics 301, *Introduction to Informatics*.
- b. *Introductory concentration course*: Informatics 310S.
- c. Additional introductory concentration course: Informatics 310C, 310D, 310J, 310M, or 310U.
- d. Advanced concentration coursework: Nine credit hours of advanced topics coursework in Informatics 320S, *Topics in Social Informatics*.
- e. Informatics 379C, *Capstone* (Students pursuing the School of Information Honors distinction may substitute Informatics 679H, *Honors Thesis*).
- f. *Informatics elective*: Three hours of Informatics elective coursework in the School of Information.

## User Experience Design Concentration

- a. Informatics 301, *Introduction to Informatics*.
- b. *Introductory concentration course*: Informatics 310U.
- c. Additional introductory concentration course: Informatics 310C, 310D, 310J, 310M or 310S.
- d. Advanced concentration coursework: Nine credit hours of advanced topics coursework in Informatics 320U, *Topics in User Experience Design*.
- e. Informatics 379C, *Capstone*, (Students pursuing the School of Information Honors distinction may substitute Informatics 679H, *Honors Thesis*).
- f. *Informatics elective*: Three hours of Informatics elective coursework in the School of Information.

## Electives

In addition to the core curriculum, prescribed work, and major, students must complete enough elective coursework to provide the 120 semester hours required for the degree. These 120 hours may include no more than 12 hours of designated coursework in air force science, military science, or naval science; 12 hours completed on the pass/fail basis; and 36 hours in any other single college or school of the University.

## Minors and Certificates

Students may choose to pursue a minor and/or certificate to offset elective credit. The minor or certificate consists of a specific number of semester hours of coursework completed outside the student's major field. The requirements of the minor or certificate are established by the offering department. Only one minor may be declared per major. Before planning to use a course to fulfill the minor or certificate requirement, the student should consult the department that offers the course.